



Category 6A F/UTP - Foiled Unshielded Twisted Pair PE Cable

The Category 6A Foiled Unshielded Twisted Pair (F/UTP) cable with 4 x 2 x 23 AWG copper wire structure fully complies with ISO/IEC and TIA/EIA 568 standards. It is designed for use in horizontal network installations up to 500MHz. OptronicsPlus Cat6a F/UTP cable exceeds Cat6A/Class EA performance requirements and supports 10G-BASE-T, 2G FCBASE-T, 4G FC-BASE-T and 1000Base-T applications. It has a double-cover structure and comes with inside PVC and outside PE jacket.

Features

- 23 AWG conductors
- Exceeds Cat6A performance requirements
- ISO/IEC 11801 and TIA/EIA568 compliant
- Available with PE outer jacket
- Supplied in 305m or 500m reels
- Printed metre marks

Applications

- Cat6a/Class EA up to 500Mhz applications
- 1000BASE-T, 2G FCBASE-T and 10GBASE-T applications
- Horizontal network installations
- Backwards compatible with Cat 5e and Cat6 distribution systems

Specifications

CONSTRUCTION

Conductor	23AWG solid bare copper
Conductor Nom. O.D	0.575 ± 0.005 mm
Insulation	HDPE
Insulation Nom. O.D	1.01 ± 0.1 mm
Minimum Thickness	0.23 mm (REF)
Central Cross	PE
Inner Jacket	PVC
Inner Jacket Average Thickness	0.55 ± 0.05 mm
Outside Tape Wrap Material	Al-foil
Drain Wire Material	Tinned copper
Drain Wire Nom. O.D	1/0.404 ± 0.007
Outer Sheath	LDPE
Outer Sheath Average Thickness	0.55 ± 0.05 mm
Overall Diameter	8.2 ± 0.45mm
Colour	Black
Sheath Normal Temp Tensile Strength	≥13.5
Sheath Normal Temp Elongation	≥150
Insulation Normal Temp Tensile Strength	≥16
Insulation Normal Temp Elongation	≥300
Aging Condition	100°C ± 2°C, 24h, 7d
Sheath After Aging Tensile Strength	≥12.5
Sheath After Aging Elongation	≥125
Temperature Rating	-20°C - + 75°C
Cold Bend (-20 ± 2°C × 4)	8 × Cable O.D. No visible cracks

Transmission Line Performance

FREQUENCY (MHZ)	RL ≥dB	ATT ≤dB	NEXT ≥dB	ACRF ≥dB	PS NEXT dB	PS ACRF dB
1	19.1	3.0	65.0	64.2	62.0	61.2
4	21.0	3.5	64.1	52.1	61.8	49.1
8	21.0	5.0	59.4	46.1	57.0	43.1
10	21.0	5.5	57.8	44.2	55.5	41.2
16	20.0	7.0	54.6	40.1	52.2	37.1
20	19.5	7.8	53.1	38.2	50.7	35.2
25	19.0	8.8	51.5	36.2	49.1	33.2
31.25	18.5	9.8	50.0	34.3	47.5	31.3
62.5	16.0	14.0	45.1	28.3	42.7	25.3
100	14.0	18.0	41.8	24.2	39.3	21.2
200	11.0	26.1	36.9	18.2	34.3	15.2
250	10.0	29.5	35.3	16.2	32.7	13.2
300	8.6	35.6	31.8	13.3	29.1	10.3
400	8.0	41.1	28.2	11.1	25.3	8.1
500	8.0	43.8	26.7	10.2	23.8	7.2

Standards Compliance

- Class EA / Category 6A
- ISO/IEC 11801 2nd Edition
- ANSI/TIA/EIA-568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1
- IEC 60332-1-2
- RoHS
- REACH

Ordering Information

DESCRIPTION	PART NUMBER
Category 6A F/UTP PE Cable Black - 305m Reel	OCC-6A-23-305
Category 6A F/UTP PE Cable Black - 500m Reel	OCC-6A-23-500

Additional Images

